



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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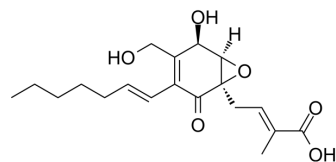
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Ambuic acid

Cat. No.:	HY-126858
CAS No.:	340774-69-8
Molecular Formula:	C ₁₉ H ₂₆ O ₆
Molecular Weight:	350.41
Target:	ERK; JNK; NO Synthase; COX
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ambuic acid exhibits antimicrobial activity against *Staphylococcus aureus*, with IC₅₀ of 43.9 μM for strain ATCC 6538. Ambuic acid is an inhibitor for the biosynthesis of cyclic peptide quorum sensing molecules (quorones) in gram-positive bacteria. Ambuic acid exhibits anti-inflammatory activity through ERK/JNK/MAPK signaling pathway^{[1][2][3]}.

REFERENCES

- [1]. Zhang Q, et al., Anti-inflammatory action of ambuic acid, a natural product isolated from the solid culture of *Pestalotiopsis neglecta*, through blocking ERK/JNK mitogen-activated protein kinase signaling pathway. *Exp Ther Med*. 2018 Aug;16(2):1538-1546.
- [2]. Nakayama J, et al., Ambuic acid inhibits the biosynthesis of cyclic peptide quorones in gram-positive bacteria. *Antimicrob Agents Chemother*. 2009 Feb;53(2):580-6.
- [3]. Ding G, et al., Ambuic acid and torreyanic acid derivatives from the endolichenic fungus *Pestalotiopsis* sp. *J Nat Prod*. 2009 Jan;72(1):182-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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